

George Harman  
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Baltimore, MD 21230-1718  
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<<<<GWIASIG 0.07>>>>

CC: <cdecker@mdot.state.md.us>

2

**From:** "George Harman" <gharman@mde.state.md.us>  
**To:** <pderry@bcpl.net>, <jripley@ci.college-park.md.us>, "Jerrie Cherry"  
<jcherry101@comcast.net>, <John.Quinn@constellation.com>, "Pamela Engle"  
<pamelae@dnhm.state.md.us>, "Charles Zeleski" <zeleskc@dnhm.state.md.us>,  
<TBROLL@dnr.state.md.us>, "Tammy Williams" <twilliams@mdbusiness.state.md.us>,  
<jgahler@mdsp.org>, <ndofflemyer@mdsp.org>, <cves01@mdsp.org>,  
<oglet@montgomerycountymd.gov>, "William Grabau" <william.grabau@osha.gov>,  
<jack.jacobs@safeway.com>, <KPolcak@sha.state.md.us>, <aflatau@umd.edu>, <sgeluz@yahoo.com>  
**Date:** 04/12/2005 4:13:59 PM  
**Subject:** May 9 Noise Council meeting

To all:

I am beginning to work on the agenda for the May 9th meeting (9:00 to noon). I'm looking for specific topics and presentations that need to be explored.

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Other topical areas for presentations and discussion are hereby solicited. Please provide me with your ideas for speakers and/or just the topics.

The agenda might be (if things work out):

Welcome  
Introductions  
Legislative/regulations update  
1. MDE Program activities  
2. MVA presentation and discussion  
break  
3. SHA presentation and discussion  
4 other topic(s)  
5. Public comments (last 30 minutes)

**From:** "George Harman" <gharman@mde.state.md.us>  
**To:** "Liz Eisenknocker" <LizE061925@aol.com>, <SANT1425@aol.com>, "Rich Peppin" <peppinr@asme.org>, <Terry.Dellinger@awin.com>, <pderry@bcpl.net>, <lfrmatran@belair.bel-air.md.us>, <jripley@ci.college-park.md.us>, "Robin Grove" <bayroad@comcast.net>, "Jerrie Cherry" <jcherry101@comcast.net>, "Marsha Harton" <mharton@comcast.net>, <John.Quinn@constellation.com>, "Pamela Engle" <pamelae@dnhm.state.md.us>, "Charles Zeleski" <zeleskc@dnhm.state.md.us>, <dandreassen@dnr.state.md.us>, "Maurice Davis" <mcdavis@dnr.state.md.us>, "Fred Schmitz" <fschmitz@eng.umd.edu>, "Steve Johnson" <stc921jhnsn@erols.com>, "Valerie Connel" <valeriec.mdfb@erols.com>, "Gene Burner" <burner@friend.ly.net>, "Ron Nelson" <ronelson@friend.ly.net>, "Michael Powell" <mpowell@gflaw.com>, <thosna@hotmail.com>, <jb\_jennings@house.state.md.us>, "Anthony " Sandy " Weymor" <sandyw@iximd.com>, <fschmitz@mail.arc.nasa.gov>, "Joe Miedusiewski" <jmiedusiewski@mail.semmes.com>, "Tammy Williams" <twilliams@mdbusiness.state.md.us>, <hhamilton@mdchamber.org>, "Erin Dougherty" <EFavazza@mdcounties.org>, "Susan Douglas" <ballast@mde.state.md.us>, "Mike Griffen" <mgriffen@mde.state.md.us>, "Matthew Zimmerman" <MZimmerman@mde.state.md.us>, "Candace Donoh" <CandaceD@mdmunicipal.org>, <rbambary@mdot.state.md.us>, "Jim Noonan" <jnoonan@mdp.state.md.us>, <ecornell@mdsp.org>, <jgahler@mdsp.org>, <ndofflemeyer@mdsp.org>, <cves01@mdsp.org>, "Michael Staiano" <staianoengrg@mindspring.com>, "Jim Caffey" <jcaffey@mmhaonline.org>, "Mark Pfefferle" <Mark.Pfefferle@mncppc-mc.org>, <tom.ogle@montgomerycountymd.gov>, "David Shoner" <dshoner@multistate.com>, <michael.begly@ngc.com>, "William Grabau" <william.grabau@osha.gov>, "Dorothy Guy" <Dorothy.Guy@piperrudnick.com>, "Roger Truitt" <roger.truitt@piperrudnick.com>, <johnsson@qis.net>, <jack.jacobs@safeway.com>, "John Astle" <john\_astle@senate.state.md.us>, <sharon\_grosfeld@senate.state.md.us>, <KPolcak@sha.state.md.us>, <david.king@ssa.gov>, <cardova@starpower.net>, "Jenna Settino" <jes@stateside.com>, <albert@toad.net>, "Kathleen MdcHugh" <mbabuild@toad.net>, <aflatau@umd.edu>, "Robert Smith" <rgsmith@venable.com>, <fats1@verizon.net>, <sgeluz@yahoo.com>, "Calvin Forsyth" <cfsf123@yellowbananas.com>  
**Date:** 04/28/2005 8:25:22 AM  
**Subject:** May 9 Noise Council meeting

DRAFT

MEETING AGENDA  
 ENVIRONMENTAL NOISE ADVISORY COUNCIL  
 AND THE INTERAGENCY NOISE CONTROL COMMITTEE  
 Monday

May 9, 2005  
 9:00 AM to 11:30 PM  
 Lobby Meeting Room  
 Maryland Department of the Environment  
 1800 Washington Blvd.

- 09:00 Welcome - Dr. George Luz, Chair, Noise Advisory Council
- 09:05 Member introductions
- 09:10 TFC Mark Batton - Maryland State Police - Vehicle noise control
- 09:30 Ken Polcak - State Highway Administration - tire and road noise
- 09:50 Discussion - vehicle and road noise control options by members
- 10:30 Break

10:45 Legislative summary -budget issues - local gov't updates

11:00 Public comment

11:30 Adjourn

Next Meeting ?

**MDE Directions:**

See: [www.mde.state.md.us](http://www.mde.state.md.us)

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**CC:** "Jim Slater" <[evsrv@ccpl.carr.org](mailto:evsrv@ccpl.carr.org)>, "John Hill" <[JHill@mde.state.md.us](mailto:JHill@mde.state.md.us)>, "Marie Halka" <[mhalka@mde.state.md.us](mailto:mhalka@mde.state.md.us)>, "Rich Eskin" <[reskin@mde.state.md.us](mailto:reskin@mde.state.md.us)>

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9

**From:** "George Harman" <gharman@mde.state.md.us>  
**To:** <dlc123@erols.com>  
**Date:** 06/03/2005 8:16:18 AM  
**Subject:** Re: noise from beltway, subway and in general

Dear Ms. Cappel,  
Montgomery County has its own noise control program. Mr. Tom Ogle heads that program and can be reached at 240-777-3755. The State Highway Administration also has a program that evaluates the need for highway noise barriers. Mr. Ken Polcak is that point of contact and his number is 410-545-8640. Rail or subway noise is another issue and I would suspect that there is a unit in the Metro organization that addresses those issues, but I don't have a contact readily available.

I would hope that the above two individuals could address your concerns. The Department of the Environment (MDE) would not typically take on the type of issues that you have raised, first because we defer noise issues in Montgomery County to their program, and secondly, traffic and highway noise falls under the jurisdiction of the State Highway Administration, or the Motor Vehicle Administration (muffler problems). Furthermore, MDE is no longer taking on new issues because of the recent elimination of funding for the program by the legislature.

If you have any questions regarding the above, please feel free to contact me.

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gharman@mde.state.md.us

>>> "Debbie" <dlc123@erols.com> 06/01/05 09:35PM >>>  
Dear Mr. Harman,

I live in the Promenade apartments in Bethesda, Md. It is a high rise located at 355 and the 495/270 spur.

At this location at 355-Wisc. Ave. the subway comes out from underground and begins its above ground rail journey. The noise it makes while traveling on the rail sounds like jets overhead. (We have plenty of those plus all the helicopters!!) The way our buildings are constructed, two V's connected, it produces a wind and noise tunnel and amplifier. We are right on the beltway, the North building is at the beltway and where my apartment in the South building is located I can see (in the winter) the traffic on the beltway and hear it all the time 24/7.

10

I sleep with 29 decibel earplugs but the trucks barrowing down at high speed, cranking up the gears to build up speed is horrible - 24/7.

We also have the ride-on bus all day and evenings that are unbelievably noisy and spewing exhaust along with the grinding groaning noise.

Recently on the Today Show they had segment with a person measuring noise levels. I would love to find out what they are here. The beltway noise sounds like it is coming out of a huge metal container, roaring and echoing non-stop.

I have lived here 20 years but recently moved from one side of the South building to the other and cannot believe the difference in noise levels. I never had to sleep with ear plugs to have a 'quiet apartment' before. It has really gotten to me and I feel like I need to take a vacation to get some peace. I dread coming home to have to hear this all the time.

Can a sound wall be put up to block some of the noise or don't they even help?

Is there any way to get or borrow the device that measure the noise and place it outside my apt. for a while?

Please let me know if anything can be done.

Thank you very much.

Debbie Cappel  
513 South  
Promenade Towers

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<<<<GWIASIG 0.07>>>>

CC: <tom.ogle@montgomerycountymd.gov>, <KPolcak@sha.state.md.us>

D3

(51r2579)

**ENROLLED BILL**

-- Education, Health, and Environmental Affairs/Environmental Matters --

Introduced by **Senator Hafer**

Read and Examined by Proofreaders:

\_\_\_\_\_  
Proofreader.\_\_\_\_\_  
Proofreader.Sealed with the Great Seal and presented to the Governor, for his approval this  
\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_ o'clock, \_\_\_\_ M.\_\_\_\_\_  
President.

## CHAPTER \_\_\_\_\_

1 AN ACT concerning

2 Allegany, Anne Arundel and Garrett, Garrett, and Washington Counties -  
3 Sound Level Limits and Noise Control - Shooting Sports Clubs

4 FOR the purpose of prohibiting ~~political subdivisions in Allegany and Garrett~~  
 5 ~~counties~~ Allegany, Anne Arundel, Garrett, or Washington counties or political  
 6 subdivisions of Allegany, Anne Arundel, Garrett, or Washington counties from  
 7 adopting certain noise control ordinances, rules, or regulations that prohibit  
 8 certain target shooting between certain hours by shooting sports clubs that are  
 9 chartered and in operation by a certain date; authorizing ~~political subdivisions~~  
 10 ~~in Allegany and Garrett counties~~ Allegany, Anne Arundel, Garrett, or  
 11 Washington counties or political subdivisions of Allegany, Anne Arundel,  
 12 Garrett, or Washington counties to adopt certain noise control ordinances, rules,  
 13 or regulations that prohibit certain target shooting between certain hours by  
 14 shooting sports clubs that the Department of the Environment determines are  
 15 not in compliance as of a certain date with certain standards, limits, or rules or  
 16 regulations; requiring ordinances, rules, and regulations adopted under this Act  
 17 to allow certain target shooting between certain hours by shooting sports clubs

Exempts Gun clubs

12

1 that the Department determines have become compliant with certain standards,  
2 limits, or rules; prohibiting the Department from adopting certain sound level  
3 limits and noise control rules and regulations prohibiting certain target shooting  
4 between certain hours in Allegany, Anne Arundel and Garrett, Garrett, and  
5 Washington counties at shooting sports clubs that are chartered and in  
6 operation by a certain date; authorizing the Department to adopt certain sound  
7 level limits and noise control rules and regulations that prohibit certain target  
8 shooting between certain hours by shooting sports clubs that the Department  
9 determines are not in compliance as of a certain date with certain standards,  
10 limits, or rules; requiring sound level limits and noise control rules and  
11 regulations adopted under this Act to allow certain target shooting between  
12 certain hours by shooting sports clubs that the Department determines have  
13 become compliant with certain standards, limits, or rules; making certain  
14 conforming changes; and generally relating to sound level limits and noise  
15 controls at shooting sports clubs.

16 BY repealing and reenacting, with amendments,  
17 Article - Environment  
18 Section 3-105(a) and 3-401(c)  
19 Annotated Code of Maryland  
20 (1996 Replacement Volume and 2004 Supplement)

21 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF  
22 MARYLAND, That the Laws of Maryland read as follows:

23 **Article - Environment**

24 3-105.

25 (a) (1) Except as provided in this section, this title does not limit the power  
26 of a political subdivision to adopt noise control ordinances, rules, or regulations.

27 (2) A political subdivision may not adopt any noise control ordinance,  
28 rule, or regulation that is less stringent than the environmental noise standards,  
29 sound level limits, and noise control rules and regulations adopted under this title.

30 (3) (i) A political subdivision may not adopt any noise control  
31 ordinance, rule, or regulation, including the environmental noise standards, sound  
32 level limits, and noise control rules and regulations adopted under this title, that  
33 prohibits trapshooting, skeetshooting, or other target shooting between the hours of 9  
34 a.m. and 10 p.m. by a shooting sports club that is chartered and in operation as of  
35 January 1, 2001.

36 (ii) This paragraph does not apply in Allegany, ANNE ARUNDEL,  
37 Baltimore City, Calvert, Charles, Garrett, Howard, Montgomery, St. Mary's, and  
38 Washington counties.

39 (4) (I) EXCEPT AS PROVIDED IN SUBPARAGRAPH (II) OF THIS  
40 PARAGRAPH, A POLITICAL SUBDIVISION IN ALLEGANY COUNTY OR GARRETT COUNTY

UNOFFICIAL COPY OF SENATE BILL 685

1 ALLEGANY COUNTY, ANNE ARUNDEL COUNTY, GARRETT COUNTY, WASHINGTON  
2 COUNTY, OR A POLITICAL SUBDIVISION OF ALLEGANY COUNTY, ANNE ARUNDEL  
3 COUNTY, GARRETT COUNTY, OR WASHINGTON COUNTY MAY NOT ADOPT ANY NOISE  
4 CONTROL ORDINANCE, RULE, OR REGULATION, INCLUDING THE ENVIRONMENTAL  
5 NOISE STANDARDS, SOUND LEVEL LIMITS, AND NOISE CONTROL RULES AND  
6 REGULATIONS ADOPTED UNDER THIS TITLE, THAT PROHIBITS TRAPSHOOTING,  
7 SKEETSHOOTING, OR OTHER TARGET SHOOTING BETWEEN THE HOURS OF 9 A.M.  
8 AND 10 P.M. BY A SHOOTING SPORTS CLUB THAT IS CHARTERED AND IN OPERATION  
9 AS OF JANUARY 1, 2005.

10 (II) 1. SUBJECT TO THE PROVISIONS OF SUBSUBPARAGRAPH 2  
11 OF THIS SUBPARAGRAPH, ~~A POLITICAL SUBDIVISION IN ALLEGANY COUNTY OR~~  
12 GARRETT COUNTY ALLEGANY COUNTY, ANNE ARUNDEL COUNTY, GARRETT COUNTY,  
13 WASHINGTON COUNTY, OR A POLITICAL SUBDIVISION OF ALLEGANY COUNTY, ANNE  
14 ARUNDEL COUNTY, GARRETT COUNTY, OR WASHINGTON COUNTY MAY ADOPT ANY  
15 NOISE CONTROL ORDINANCE, RULE, OR REGULATION, INCLUDING THE  
16 ENVIRONMENTAL NOISE STANDARDS, SOUND LEVEL LIMITS, AND NOISE CONTROL  
17 RULES AND REGULATIONS ADOPTED UNDER THIS TITLE, THAT PROHIBITS  
18 TRAPSHOOTING, SKEETSHOOTING, OR OTHER TARGET SHOOTING BETWEEN THE  
19 HOURS OF 9 A.M. AND 10 P.M. BY A SHOOTING SPORTS CLUB THAT THE DEPARTMENT  
20 DETERMINES IS NOT IN COMPLIANCE AS OF JANUARY 1, 2005 WITH ~~ANY OTHER~~  
21 ENVIRONMENTAL NOISE STANDARDS, SOUND LEVEL LIMITS, OR NOISE CONTROL  
22 RULES OR REGULATIONS ADOPTED UNDER THIS TITLE.

23 2. A NOISE CONTROL ORDINANCE, RULE, OR REGULATION  
24 ADOPTED UNDER SUBSUBPARAGRAPH 1 OF THIS SUBPARAGRAPH SHALL ALLOW  
25 TRAPSHOOTING, SKEETSHOOTING, AND OTHER TARGET SHOOTING BETWEEN THE  
26 HOURS OF 9 A.M. AND 10 P.M. BY A SHOOTING SPORTS CLUB THAT THE DEPARTMENT  
27 DETERMINES HAS BECOME COMPLIANT WITH ~~ALL OTHER~~ ENVIRONMENTAL NOISE  
28 STANDARDS, SOUND LEVEL LIMITS, AND NOISE CONTROL RULES AND REGULATIONS  
29 ADOPTED UNDER THIS TITLE.

30 3-401.

31 (c) (1) In adopting sound level limits and noise control rules and  
32 regulations, the Department shall consider, among other things:

33 (i) The residential, commercial, or industrial nature of the area  
34 affected;

35 (ii) Zoning;

36 (iii) The nature and source of various kinds of noise;

37 (iv) The degree of noise reduction that may be attained and  
38 maintained using the best available technology;

39 (v) Accepted scientific and professional methods for measurement  
40 of sound levels; and

14

1 (vi) The cost of compliance with the sound level limits.

2 (2) The sound level limits adopted under this subsection shall be  
3 consistent with the environmental noise standards adopted by the Department.

4 (3) The sound level limits and noise control rules and regulations  
5 adopted under this subsection may not prohibit trapshooting or other target shooting  
6 on any range or other property in Frederick County that the Frederick County  
7 Department of Planning and Zoning has approved as a place for those sporting  
8 events.

9 (4) The sound level limits and noise control rules and regulations  
10 adopted under this subsection shall be as follows for residential heat pumps and air  
11 conditioning units:

12 (i) Residential heat pumps 75dba.

13 (ii) Residential air conditioning units 70dba.

14 (5) (i) The sound level limits and noise control rules and regulations  
15 adopted under this subsection may not prohibit trapshooting, skeetshooting, or other  
16 target shooting between the hours of 9 a.m. and 10 p.m. on any range or other  
17 property of a shooting sports club that is chartered and in operation as of January 1,  
18 2001.

19 (ii) This paragraph does not apply in Allegany, Anne Arundel,  
20 Baltimore City, Calvert, Charles, Garrett, Howard, Montgomery, St. Mary's, and  
21 Washington counties.

22 (6) (I) EXCEPT AS PROVIDED IN SUBPARAGRAPH (II) OF THIS  
23 PARAGRAPH, THE DEPARTMENT MAY NOT ADOPT SOUND LEVEL LIMITS AND NOISE  
24 CONTROL RULES AND REGULATIONS UNDER THIS SUBSECTION THAT PROHIBIT  
25 TRAPSHOOTING, SKEETSHOOTING, OR OTHER TARGET SHOOTING BETWEEN THE  
26 HOURS OF 9 A.M. AND 10 P.M. IN ALLEGANY COUNTY, ANNE ARUNDEL COUNTY OR  
27 GARRETT, GARRETT COUNTY, OR WASHINGTON COUNTY ON ANY RANGE OR OTHER  
28 PROPERTY OF A SHOOTING SPORTS CLUB THAT IS CHARTERED AND IN OPERATION  
29 AS OF JANUARY 1, 2005.

30 (II) 1. SUBJECT TO THE PROVISIONS OF SUBSUBPARAGRAPH 2  
31 OF THIS SUBPARAGRAPH, THE DEPARTMENT MAY ADOPT SOUND LEVEL LIMITS AND  
32 NOISE CONTROL RULES AND REGULATIONS UNDER THIS SUBSECTION THAT  
33 PROHIBIT TRAPSHOOTING, SKEETSHOOTING, OR OTHER TARGET SHOOTING  
34 BETWEEN THE HOURS OF 9 A.M. AND 10 P.M. IN ALLEGANY COUNTY, ANNE ARUNDEL  
35 COUNTY OR GARRETT, GARRETT COUNTY, OR WASHINGTON COUNTY ON ANY RANGE  
36 OR OTHER PROPERTY OF A SHOOTING CLUB THAT THE DEPARTMENT DETERMINES IS  
37 NOT IN COMPLIANCE AS OF JANUARY 1, 2005 WITH ANY OTHER ENVIRONMENTAL  
38 NOISE STANDARDS, SOUND LEVEL LIMITS, OR NOISE CONTROL RULES AND  
39 REGULATIONS ADOPTED UNDER THIS TITLE.

## UNOFFICIAL COPY OF SENATE BILL 685

2. A SOUND LEVEL LIMIT OR NOISE CONTROL RULE OR REGULATION ADOPTED UNDER THIS SUBSECTION SHALL ALLOW TRAPSHOOTING, SKEETSHOOTING, AND OTHER TARGET SHOOTING BETWEEN THE HOURS OF 9 A.M. AND 10 P.M. BY A SHOOTING SPORTS CLUB THAT THE DEPARTMENT DETERMINES HAS BECOME COMPLIANT WITH ALL OTHER SOUND LEVEL LIMITS AND NOISE CONTROL RULES AND REGULATIONS ADOPTED UNDER THIS TITLE.

7 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect  
8 ~~October~~ July 1, 2005.

16

U00A

**Explanation:** This language deletes ~~three~~ one positions and restricts associated funds for State employee and retiree health insurance. The ~~three~~ positions being deleted are ~~is~~ a vacant Public Affairs Officer position in the Office of the Secretary, ~~a filled Assistant Secretary position, and a filled Administrator position in the Office of the Secretary.~~

Amendment No. \_\_\_\_\_

Add the following language:

Further provided that 2 new regular positions shall be deleted from this budget and the amounts listed below, being funds associated with these positions, shall be restricted and may be used only to increase the State subsidy for employee and retiree health insurance:

\$33,401 general funds

\$43,391 special funds

Authorization is granted to transfer funds restricted among the programs of the budget as necessary to increase the State subsidy for employee and retiree health insurance. Funds not expended for this purpose may not be expended and shall revert or lapse into their fund of origin.

**Explanation:** This language deletes two new positions and restricts associated funds for State employee and retiree health insurance. This language deletes a new geologist position in the Voluntary Cleanup Program, but leaves two other new geologist positions. This language deletes a new environmental compliance specialist in the Lead Poisoning program, but leaves two other new environmental compliance specialist positions.

## TECHNICAL AND REGULATORY SERVICES ADMINISTRATION

### U00A05.01 Technical and Regulatory Services

Reduce appropriation for the purposes indicated:

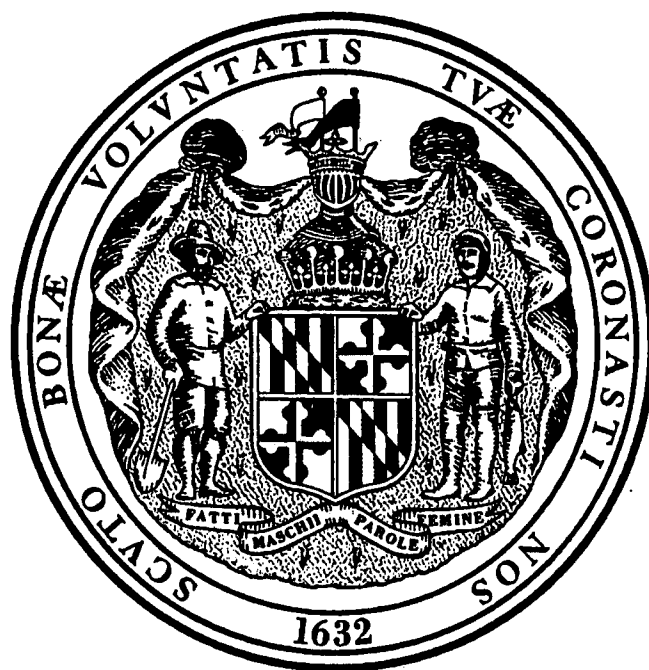
	<u>Funds</u>	<u>Positions</u>
1. <i>Delete funds for the Noise Control Program. This issue is better handled by local jurisdictions for two main reasons. First, most issues have their origin in zoning and permitting decisions, and secondly, response to the often brief and variable nature of events can most readily be handled by local responders.</i>	50,000	GF
<i>Total Reductions</i>	50,000	



Report of the

**SUBCOMMITTEE ON PUBLIC SAFETY,  
TRANSPORTATION, AND ENVIRONMENT**

to the Senate Budget and Taxation Committee



**2005 SESSION**

Recommendations, Reductions, and Summary of  
Action Pertaining to:  
**HOUSE BILL 150**

14

MEETING AGENDA  
ENVIRONMENTAL NOISE ADVISORY COUNCIL  
AND THE INTERAGENCY NOISE CONTROL COMMITTEE  
Monday

**May 9, 2005**

9:00 AM to 11:30 PM

Lobby Meeting Room

Maryland Department of the Environment  
1800 Washington Blvd.

09:00 Welcome – Dr. George Luz, Chair, Noise Advisory Council

09:05 Member introductions

09:10 TFC Mark Baton - Maryland State Police – Vehicle noise control

09:30 Ken Polcak – State Highway Administration – tire and road noise

09:50 Discussion – vehicle and road noise control options by members

10:30 Break

10:45 Summary Legislation – noise control and budget – local gov't updates

11:00 Public comment

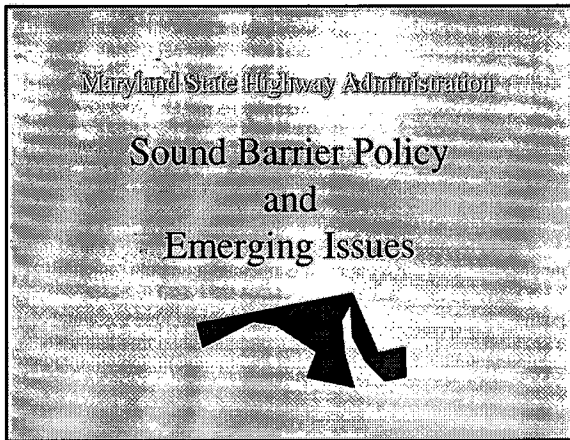
11:30 Adjourn

Next Meeting

MDE Directions:

See: [www.mde.state.md.us](http://www.mde.state.md.us)

The Big White building on Washington Blvd. just to the north of I-95 (Montgomery Park). Enter at the Red parking lot near the intersection with Monroe St. In the lobby, our reception desk is to the left.



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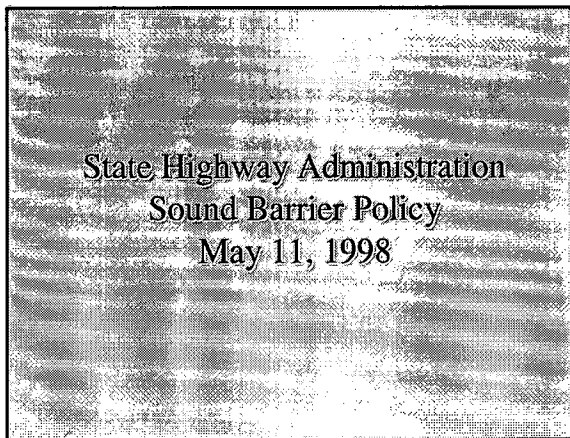
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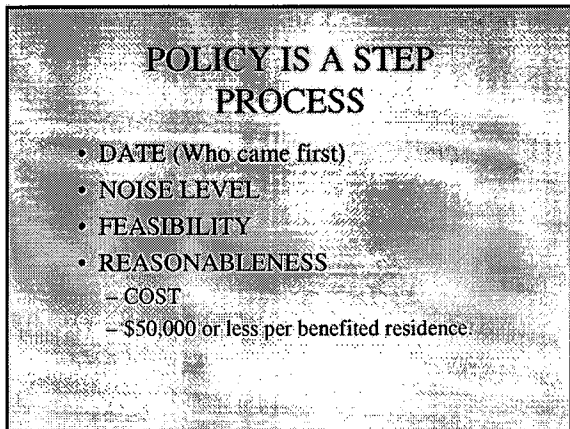
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### NOISE LEVEL CRITERIA

- Approach or exceed
  - $L_{eq}(h)$  - 67 decibels(dBA) or
  - $L_{10}(h)$  - 70 dBA
- SHA CRITERIA -  $L_{eq}(h)$  - 66 dBA
- Factors upon which level is based:
  - Speech interference (typical conversation @ 3 feet, 60-65 dBA)
  - Activity interference (phone, TV, etc.)
  - Sleep disturbance

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### SHA Highway Noise Abatement Programs

Type I      Type II

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TYPE I: when new highway construction takes place or an existing highway is expanded

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### TYPE I projects include:

- Reconstruction and/or widening including lane additions of one mile or more
- Highway on new location
- Realignment of existing highway
- Interchange reconstruction/reconfiguration

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TYPE II: when noise barriers are proposed for an existing highway, where no other highway improvements are being planned

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### TYPE III Projects

- For homes which pre-date the construction of the original highway.
- Through no fault of their own are impacted by highway noise.
- Owner could not have envisioned the degree or extent of the highway noise that would be generated.

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### Policy Terminology:

- Feasibility
- Reasonableness

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### Feasibility

- Engineering and acoustical ability of barrier to provide effective noise reduction (7-10 decibels)
  - SHA's Goal - 10 dBA reduction at the noisiest locations

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### Reasonableness

- Is it reasonable to build a barrier?
- Noise levels and impact determination
- Cost (\$50,000 per residence)
- "Benefited" residences

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*Perception of Change in Intensity Levels*

Change in Level (dBA)	Human Perception
-1	Imperceptible
-3	Just Perceptible
-5	Clearly Noticeable
-10	1/2 as Loud (SHA Design Goal)
-20	1/4 as Loud

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**LOCAL REQUIREMENTS**

- Type I - Share results of studies
- Type II - Requires local jurisdiction to implement ordinances or requirements on developers

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**LIMITED SHA ROLE**

- Technical assistance
  - Review developer noise studies and site development plans
  - Guidance in developing local noise control ordinances or programs
- Information resource
  - Present / Future noise levels for highway

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**Beyond Noise Barriers  
Other Issues**

Addressed by FHWA Research  
(Purdue University/ FHWA Scan  
Tours

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REMEMBER:  
- Emission level improvements heavy trucks

**Tire / Pavement Noise**

- Speed related (above 35 mph +/-)
  - Shift of source dominance
- Surface Texture (Grooves, Open-graded)
  - Material related
  - Course vs. smooth
- Material differences (Concrete vs. Asphalt)

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**Tire / Pavement Noise  
(continued)**

- Longevity / Durability
  - Wearing of surface
  - Voids clogging
- Frequency component
  - Shift / decrease in higher frequencies
  - Pure tone generation
- SAFETY FIRST

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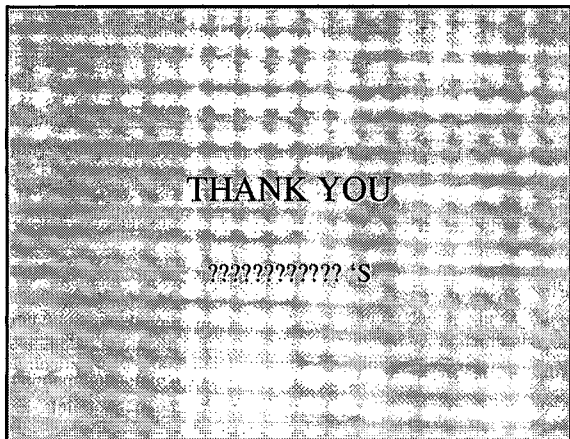
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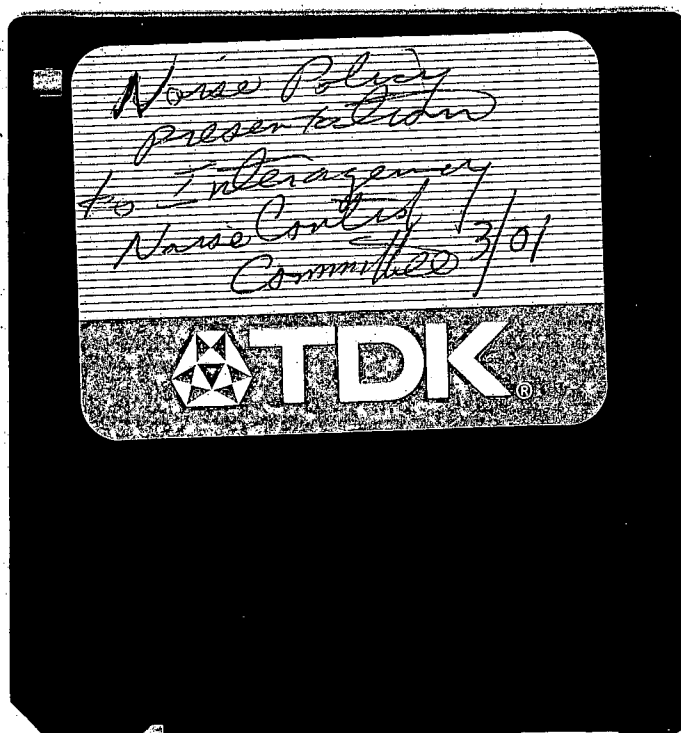
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